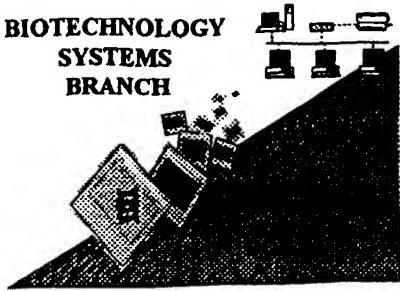


# RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



DHZ

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

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MAR 05 2001

TECH CENTER 1600/2900

Application Serial Number: 09/068, 253

Source: 1653

Date Processed by STIC: 2/26/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>09/068,253</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	RECEIVED
2 <input type="checkbox"/> Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	MAR 05 2001 TECH CENTER 1600/2900
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	
4 <input type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.	
7 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence: <b>(2) INFORMATION FOR SEQ ID NO:X:</b> <b>(i) SEQUENCE CHARACTERISTICS:</b> (Do not insert any headings under "SEQUENCE CHARACTERISTICS") <b>(xi) SEQUENCE DESCRIPTION:</b> SEQ ID NO:X: This sequence is intentionally skipped  Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000	
10 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11 <input type="checkbox"/> Use of <213>Organism (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing this mandatory field or its response.	
12 <input type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing the <220> Feature and associated headings Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted "file", resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/068,253

DATE: 02/26/2001  
TIME: 16:41:00

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Input Set : A:\19624051.app  
Output Set: N:\CRF3\02262001\I068253.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: SHIMURA, Takesada  
 4 TORIYAMA, Satsuki  
 6 <120> TITLE OF INVENTION: CARTILAGE/ BONE INDUCING MATERIALS FOR REPARATION  
 8 <130> FILE REFERENCE: 146.1286  
 10 <140> CURRENT APPLICATION NUMBER: 09/068,253  
 11 <141> CURRENT FILING DATE: 1998-06-09  
 13 <150> PRIOR APPLICATION NUMBER: PCT/JP96/03333  
 14 <151> PRIOR FILING DATE: 1996-11-14  
 16 <150> PRIOR APPLICATION NUMBER: JP 7/322402  
 17 <151> PRIOR FILING DATE: 1995-11-17  
 19 <160> NUMBER OF SEQ ID NOS: 4  
 21 <170> SOFTWARE: PatentIn Ver. 2.1  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 357  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Homo sapiens  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: CDS  
 30 <222> LOCATION: (1)..(357)  
 31 <223> OTHER INFORMATION: Relevant amino acid residues in SEQ ID NO: 1 from  
 32 1 to 119 in WO 95/04819  
 34 <300> PUBLICATION INFORMATION:  
 35 <301> AUTHORS: HOTTEN, Gertrud  
 36 NEIDHARDT, Helge  
 37 PAULISTA, Michael  
 38 <302> TITLE: NEW GROWTH/DIFFERENTIATION FACTOR OF THE TGF-BETA  
 39 FAMILY  
 W--> 40 <310> PATENT DOCUMENT NUMBER: WO 95/04819 give the serial number of the filed,  
 41 <311> PATENT FILING DATE: 1995-02-16 application,  
 42 <313> RELEVANT RESIDUES: 1 TO 119  
 44 <400> SEQUENCE: 1  
 45 cca ctg gcc act cgc cag ggc aag cga ccc agc aag aac ctt aag gct 48  
 46 Pro Leu Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala  
 47 1 5 10 15  
 49 cgc tgc agt cg<sup>g</sup> aag gca ctg cat gtc aac ttc aag gac atg ggc tgg 96  
 50 Arg Cys Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp  
 51 20 25 30  
 53 gac gac tgg atc atc gca ccc ctt gag tac gag gct ttc cac tgc gag 144  
 54 Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu  
 55 35 40 45  
 57 ggg ctg tgc gag ttc cca ttg cgc tcc cac ctg gag ccc acg aat cat  
 58 Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His  
 59 50 55 60  
 61 gca gtc atc cag acc ctg atg aac tcc atg gac ccc gag tcc aca cca 240  
 62 Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro  
 63 65 70 75 80  
 65 ccc acc tgc tgt gtg ccc acg cga ctg agt ccc atc acg atc ctc ttc 288

*ppr 1-2*

give the serial number of the filed,  
application,  
not the issued patent number

(see 1.823 of  
 new sequence  
 rules)

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/068,253

DATE: 02/26/2001  
TIME: 16:41:00

Input Set : A:\19624051.app  
Output Set: N:\CRF3\02262001\I068253.raw

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66 Pro Thr Cys Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe  
67 85 90 95  
69 att gac tct gcc aac aac gtg gtg tat aag cag tat gag gac atg gtc 336  
70 Ile Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val  
71 100 105 110  
73 gtg gag tcg tgt ggc tgc agg 357  
74 Val Glu Ser Cys Gly Cys Arg  
75 115  
78 <210> SEQ ID NO: 2  
79 <211> LENGTH: 119  
80 <212> TYPE: PRT  
81 <213> ORGANISM: Homo sapiens  
83 <400> SEQUENCE: 2  
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85 1 5 10 15  
87 Arg Cys Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp  
88 20 25 30  
90 Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu  
91 35 40 45  
93 Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His  
94 50 55 60  
96 Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro  
97 65 70 75 80  
99 Pro Thr Cys Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe  
100 85 90 95  
102 Ile Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val  
103 100 105 110  
105 Val Glu Ser Cys Gly Cys Arg  
106 115  
110 <210> SEQ ID NO: 3  
111 <211> LENGTH: 27  
112 <212> TYPE: DNA  
113 <213> ORGANISM: Artificial Sequence  
115 <220> FEATURE:  
116 <223> OTHER INFORMATION: Description of Artificial Sequence:  
117 *(oligonucleotide)* → invalid response - give source of genetic material -  
119 <220> FEATURE: (see circled portion of item 12 on Error Summary Sheet)  
120 <221> NAME/KEY: misc\_feature  
121 <222> LOCATION: (1)...(27)  
122 <223> OTHER INFORMATION: PCR forward primer for isolating mature-type MP52  
124 <400> SEQUENCE: 3  
125 ataatgccac tagcaactcg tcagggc 27  
128 <210> SEQ ID NO: 4  
129 <211> LENGTH: 26  
130 <212> TYPE: DNA  
131 <213> ORGANISM: Artificial Sequence  
133 <220> FEATURE:  
134 <223> OTHER INFORMATION: Description of Artificial Sequence:  
135 *(oligonucleotide)*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/068,253

DATE: 02/26/2001  
TIME: 16:41:00

Input Set : A:\19624051.app  
Output Set: N:\CRF3\02262001\I068253.raw

137 <220> FEATURE:  
138 <221> NAME/KEY: misc\_feature  
139 <222> LOCATION: Complement((1)..(26))  
140 <223> OTHER INFORMATION: PCR reverse primer for isolating mature-type MP52  
142 <400> SEQUENCE: 4  
143 cgtcgactac ctgcagccac acgact

26

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/068,253

DATE: 02/26/2001  
TIME: 16:41:01

Input Set : A:\19624051.app  
Output Set: N:\CRF3\02262001\I068253.raw

L:40 M:256 W: Invalid Numeric Header Field, Wrong PATENT DOCUMENT NUMBER:US NN/NNN, NNN